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Relevance scale

1 [Extending mobile IP with adaptive individual paging: a performance analysis](#)

Claude Castelluccia

April 2001 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 5

Issue 2

Publisher: ACM PressFull text available: [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper proposes to extend Mobile IP with adaptive individual paging. Paging reduces the signaling cost of Mobile IP making it more adapted to wireless cellular IP networks. By reducing the number of location updates to be sent per mobile host, paging also minimizes power consumption of the mobile devices. In the proposed extension, each mobile host computes dynamically its optimal location area size according to its traffic and mobility parameters. The optimal size is the size that provides ...

2 [HMIPv6: A hierarchical mobile IPv6 proposal](#)

Claude Castelluccia

January 2000 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 4 Issue 1
Publisher: ACM PressFull text available: [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IPv6 protocol has been developed to manage global (macro) mobility. It is not adapted to local (micro) mobility since it does not support any kind of hierarchy. This paper presents a hierarchical protocol, built on top of Mobile IPv6, that separates local mobility (within a site) from global mobility (across sites) management. Local handoffs are managed locally and transparently to a mobile node's correspondent hosts while global mobility is managed with Mobile IPv6. Our scheme i ...

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research
Publisher: IBM PressFull text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer

developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Location update and routing scheme for a mobile computing environment

 Anna Hać, Yujing Huang

July 2000 **International Journal of Network Management**, Volume 10 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(332.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a new hierarchical location update and routing scheme for a wide area mobile computing environment with scalability of network hierarchy. Our scheme provides nearly optimal routing for most communication bypassing the mobile host's home network and home agent. We use simulation to compare our scheme with other schemes in both non-hierarchical and hierarchical network architectures. Copyright © 2000 John Wiley & Sons, Ltd.

5 A case for mobility support with temporary home agents

 Rong Zheng, Ye Ge, Jennifer C. Hou, Sandy R. Thuel

January 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Mobile IP standard for mobility management on the Internet enables transparent communication between mobile hosts (MHs) and their correspondent hosts (CHs). However, it suffers from triangular routing and prolonged handoff latency problems. Solutions such as route optimization and micro-mobility protocols either solve these problems partially or require costly modifications to the CHs. In this paper, we propose to use *temporary home agent* (TA) to address both problems without requirin ...

6 Client-server computing in mobile environments

 Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(233.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

7 Routing and handoff in the edge mobility architecture

 Alan O'Neill, M. Scott Corson, George Tsirtsis

October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.75 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We consider a future IP network architecture in which the core topology is fixed but where the hosts at the edge of the network may be mobile, as is the case in cellular networks. Within this architecture, Mobile-Enhanced Routing (MER) protocols are used to support the prefix-routed requirements of the fixed Internet, along with the movement of IP addresses allocated to mobile nodes. We outline a specific components for the support of such edge mobility (EMA:MER) that offers fixed/mobile IP netw ...

8 Roaming and handoff management: MobileNAT: a new technique for mobility across heterogeneous address spaces

 Milind Buddhikot, Adiseshu Hari, Kundan Singh, Scott Miller
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Publisher: ACM Press

Full text available:  pdf(303.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new network layer mobility architecture called MobileNAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) Use of two IP addresses -- an invariant virtual IP address for host identification at the application layer and an actual routable address at the network layer that changes due to mobility. Since physical address has routing significance only withi ...

Keywords: MobileNAT, mobility

9 Technical papers: Efficient micro-mobility using intra-domain multicast-based mechanisms (M&M)

 Ahmed Helmy, Muhammad Jaseemuddin, Ganesha Bhaskara
November 2002 **ACM SIGCOMM Computer Comm unication Review**, Volume 32 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One very important metric in evaluation of IP mobility protocols is handover performance. Handover occurs when a mobile node changes its network point-of-attachment. If not performed efficiently, handover delays, jitters and packet loss directly impact applications and services. With the Internet growth and heterogeneity, it becomes crucial to design efficient handover protocols that are scalable, robust and incrementally deployable. Mobile IP (MIP) has been shown to exhibit poor handover perfor ...

10 Multicast support for mobile hosts using mobile IP: design issues and proposed architecture

Vineet Chikarmane, Carey L. Williamson, Richard B. Bunt, Wayne L. Mackrell
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(268.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we consider the problem of providing multicast to mobile hosts using Mobile IP for network routing support. Providing multicast in an internetwork with mobile hosts is made difficult because many multicast protocols are inefficient when faced with frequent membership or location changes. This basic difficulty can be handled in a number of ways, but three main problems emerge with most solutions. The tunnel convergence problem, the duplication problem, and the scoping problem ...

11 Efficient and flexible location management techniques for wireless communication

systems

Jan Jannink, Derek Lam, Narayanan Shivakumar, Jennifer Widom, Donald C. Cox

October 1997 **Wireless Networks**, Volume 3 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(638.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of managing the information required to locate users in a wireless communication system, with a focus on designing and evaluating location management techniques that are efficient, scalable, and flexible. The three key contributions of this paper are: (1) a family of location management techniques, HiPER (for Hierarchical PROFILE Replication), that efficiently provide life-long (non-geographic) numbering with fast location lookup; (2) Pleiades, a scalable event-drive ...

- 12 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels 

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available:  pdf(6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

- 13 Computing curricula 2001 

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 14 Applications: YouServ: a web-hosting and content sharing tool for the masses 

Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(238.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intranet ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

15 The mobile agent technology to support and to access museum information

 Paolo Bellavista, Antonio Corradi, Andrea Tomasi

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2**

Publisher: ACM Press

Full text available:  pdf(1.27 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Internet services, Web accessibility, asynchronicity, heterogeneous data resources, mobile agents, virtual museums

16 Replication for web hosting systems

 Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen
September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3

Publisher: ACM Press

Full text available:  pdf(374.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced <i>Web replica hosting systems</i>. These are systems that ...

Keywords: Web replication, content delivery networks

17 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debatty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(248.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

18 mPERSONA: personalized portals for the wireless user: An agent approach

Christoforos Panayiotou, George Samaras

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The needs of the wireless and mobile user regarding information access and services are quite different than those of the desktop user. This need is not about browsing the Web

but about receiving personalized services that are highly sensitive to the immediate environment and requirements of the user. Personalization appears to be the most appropriate solution to this need. It comes into aid by creating personalized portals that are specific for the wireless user, which (a) are focus on the I ...

Keywords: mobile agents, mobile computing, personalization, pervasive computing, wireless portals

19 Flexible network support for mobility 

Xinhua Zhao, Claude Castelluccia, Mary Baker

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available:  pdf(1.44 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 MPEG-4: an object-based multimedia coding standard supporting mobile applications 

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(747.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

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Result # 1 Relevance:

Mobility Support in IPv6 (RFC3775)

2004-06-01 IPCOM000028947D English

This document specifies a protocol which allows nodes to remain reachable while moving in the IPv6 Internet. Each mobile node is always identified by its home address, regardless of its current point of attachment to the Internet. While situated away from its home, ...

Result # 2 Relevance:

IP Mobility Support for IPv4 (RFC3344)

2002-08-01 IPCOM000009298D English

This document specifies protocol enhancements that allow transparent routing of IP datagrams between mobile nodes in the Internet. Each mobile node is always identified by its home address, regardless of its current point of attachment to the Internet. While situated away from its home, ...

Result # 3 Relevance:

IP Mobility Support for IPv4 (RFC3220)

2002-01-01 IPCOM000006865D English

This document specifies protocol enhancements that allow transparent routing of IP datagrams between mobile nodes in the Internet. Each mobile node is always identified by its home address, regardless of its current point of attachment to the Internet. While situated away from its home, ...

Result # 4 Relevance:

IP Mobility Support (RFC2002)

1996-10-01 IPCOM000002556D English

This document specifies protocol enhancements that allow transparent routing of IP datagrams between mobile nodes in the Internet. Each mobile node is always identified by its home address, regardless of its current point of attachment to the Internet. While situated away from its home, ...

Result # 5 Relevance:

Hierarchical Mobile IPv6 Mobility Management (HMIPv6) (RFC4140)

2005-08-01 IPCOM000127240D English

This document introduces extensions to Mobile IPv6 and IPv6 Neighbour Discovery to support hierarchical mobility handling. Hierarchical mobility management for Mobile IPv6 is designed to reduce the amount of signalling between the Mobile Node, its Correspondent Nodes, and its ...

Result # 6 Relevance:

Wireless Device Configuration (OTASP/OTAPA) via ACAP (RFC2636)

1999-07-01 IPCOM000003224D English

Wireless carriers today are faced with creating more efficient distribution channels, increasing customer satisfaction, while also improving margin and profitability. Industry trends are to sell more handsets further into the retail channel. The cost and effort ...

Result # 7 Relevance:

Wireless Device Configuration (OTASP/OTAPA) via ACAP (RFC2604)

1999-06-01 IPCOM000003191D English

Wireless carriers today are faced with creating more efficient distribution channels, incr customer satisfaction, while also improving margin and profitability. Industry trends are sale of handsets further into the retail channel. The cost and effort of ...

Result # 8 Relevance:

SIP: Session Initiation Protocol (RFC3261)

2002-06-01

IPCOM000009156D

English

This document describes Session Initiation Protocol (SIP), an application-layer control (protocol for creating, modifying, and terminating sessions with one or more participant: sessions include Internet telephone calls, multimedia distribution, and ...

Result # 9 Relevance:

What Can Be Automated?: The Computer Science and Engineering Res Study (COSERS)

1980-01-01

IPCOM000128748D

English

It is truly difficult to capture with a single question the essence of research in a diverse active area of science and technology, but the query in the title comes very close. This first posed by the late Professor George Forsythe of Stanford ...

Result # 10 Relevance:

SIP: Session Initiation Protocol (RFC2543)

1999-03-01

IPCOM000003129D

English

The Session Initiation Protocol (SIP) is an application-layer control (signaling) protocol modifying and terminating sessions with one or more participants. These sessions incl multimedia conferences, Internet telephone calls and multimedia ...

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Result # 11 Relevance:

Request for Comments Summary RFC Numbers 3500-3599 (RFC3599)

2003-12-01 IPCOM000020977D English
RFC Numbers 3500-3599

Result # 12 Relevance:

The Internet and the Millennium Problem (Year 2000) (RFC2626)

1999-06-01 IPCOM000003213D English

The Year 2000 Working Group (WG) has conducted an investigation into the millennium regards Internet related protocols. This investigation only targeted the protocols as doc the Request For Comments Series (RFCs). This investigation discovered little ...

Result # 13 Relevance:

A History of the Information Processing Techniques Office of the Defense Advanced Research Projects Agency

1992-10-01 IPCOM000127913D English

This report has been sponsored by the Computing Systems Technology Office and the § Intelligent Systems Technology Office of the Defense Advanced Research Projects Agency been prepared under NASA-Ames Research Grant NAG 2-532, subcontract USC/PO 473

Result # 14 Relevance:

Internet Security Glossary (RFC2828)

2000-05-01 IPCOM000003426D English

This Glossary (191 pages of definitions and 13 pages of references) provides abbreviations, explanations, and recommendations for use of information system security terminology to improve the comprehensibility of writing that deals with Internet security, ...

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IEEE JNL IEEE Journal or Magazine

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